## Fig.1

|          |          | GAATTCCGCGAACGAATAATTATTATTAGCAATTATTAGCGATCAATAATCTTGATCACATT |          |          |          |          |          |          |          |          |          |          |          |          |          | CATT     | 62       |          |          |             |
|----------|----------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| ATG<br>M | GCA<br>A | AGC<br>S   | ACT<br>T | TTA !    | AAG<br>K | GAA<br>E | GCA<br>A | TTA<br>L | TCA<br>S | GTG<br>V | GTG<br>V | AGT<br>S | GAA<br>E | GAC<br>D | CAG<br>Q | TCC      | TTG<br>L | TTT<br>P | GAG<br>E | 122<br>20   |
| TGT      | GCC      | TAC  | GGA      | TCG      | CCC      | CAC      | CTT      | GCA      | AAG      | ACA      | gaa      | ATG      | ACA      | GCC      | TCC      | TCT      | TCC      | AGT      | gaa      | 182         |
| C        | A        | Y  | G        | S        | P        | H        | L        | A        | K        | T        | e        | M        | T        | A        | S        | S        | S        | S        | e        | 40          |
| TAT      | G        | CAA  | ACA      | TCA      | AAG      | ATG      | AGC      | CCG      | CGC      | GTT      | CCC      | CAG      | CAG      | GAC      | TGG      | TTA      | TCA      | CAG      | CCC      | 242         |
| Y        | G        | Q  | T        | S        | K        | M        | S        | P        | R        | V        | P        | Q        | Q        | D        | W        | L        | S        | Q        | P        | 60          |
| CCG      | GCC      | AGA  | GTT      | ACC      | ATT      | AAG      | ATG      | GAG      | TGT      | AAC      | CCA      | AAC      | CAG      | GTT      | aat      | GGG      | TCA      | AGG      | AAT      | 302         |
| P        | A        | R  | V        | T        | I        | K        | M        | E        | C        | N        | P        | N        | Q        | V        | N        | G        | S        | R        | N        | 80          |
| TCA      | CCT      | GAT  | GAC      | TGC      | AGC      | GTG      | GCA      | AAA      | GGA      | GGG      | AAA      | ATG      | GTT      | AGC      | AGT      | TCA      | GAC      | AAT      | GTT      | 362         |
| S        |          | D  | D        | C        | S        | V        | A        | K        | G        | G        | K        | M        | V        | S        | S        | S        | D        | N        | V        | 100         |
| GGG      | ATG      | AAC  | TAT      | GGA      | AGC      | TAC      | ATG      | gaa      | GAG      | AAG      | CAT      | ATT      | CCG      | CCT      | CCA      | AAT      | ATG      | ACA      | ACC      | 422         |
| G        | M        | N  | Y        | G        | S        | Y        | M        | E        | E        | K        | H        | I        | P        | P        | P        | N        | M        | T        | T        | 120         |
| AAT      | gaa      | CGA  | AGA      | GTT      | ATT      | GTG      | CCA      | GCA      | GAT      | CCT      | ACG      | TTA      | TGG      | AGC      | ACA      | GAC      | CAT      | GTA      | CGG      | 482         |
| N        | e        | R  | R        | V        | I        | V        | P        | A        | D        | P        | T        | L        | W        | S        | T        | D        | H        | V        | R        | 140         |
| CAG      | TGG      | CTG  | GAG      | TGG      | GCA      | GTG      | AAG      | gag      | TAT      | GGT      | CTT      | CCA      | GAC      | GTG      | GAC      | ATC      | TTG      | TTG      | TTC      | 542         |
| Q        | W        | L  | E        | W        | A        | V        | K        | e        | Y        | G        | L        | P        | D        | V        | D        | I        | L        | L        | F        | 160         |
| CAG      | AAC      | ATT  | GAT      | GGG      | AAA      | gag      | TTG      | TGT      | AAA      | ATG      | ACC      | AAA      | GAT      | GAC      | TTC      | CAG      | AGA      | CTC      | ACG      | 602         |
| Q        | N        | I  | D        | G        | K        | E        | L        | C        | K        | M        | T        | K        | D        | D        | P        | Q        | R        | L        | T        | 180         |
| CCG      | AGC      | TAT  | AAC      | GCA      | GAT      | ATC      | CTC      | CTG      | TCA      | CAC      | CTA      | CAC      | TAC      | CTC      | AGA      | GAG      | ACT      | CCT      | CTT      | 662         |
| P        | S        | Y  | N        | A        | D        | I        | L        | L        | S        | H        | L        | H        | Y        | L        | R        | E        | T        | P        | L        | 200         |
| CCA<br>P | CAT<br>H | TTG<br>L   | ACT      | TCA<br>S | GAT<br>D | GAT<br>D | GTT<br>V | GAT<br>D | AAG<br>K | GCC<br>A | TTA<br>L | CAA<br>Q | AAC<br>N | TCT<br>S | CCA<br>P | CGG<br>R | TTA<br>L | ATG<br>M | CAT      | 722<br>220  |
| GCT      | AGA      | AAC  | ACA      | GGA      | GGA      | GCC      | ACT      | TTT      | ATT      | TTT      | CCA      | AAT      | ACA      | TCA      | GTT      | TAC      | CCA      | gaa      | GCA      | 782         |
| A        | R        | N  | T        | G        | G        | A        | T        | P        | I        | P        | P        | N        | T        | S        | V        | Y        | P        | E        | A        | 240         |
| ACG      | CAA      | AGA  | ATA      | ACA      | ACA      | AGG      | CCA      | GAT      | TTA      | CCT      | TAT      | GAG      | CAA      | GCG      | AGG      | AGA      | TCA      | GCG      | TGG      | 842         |
| T        | Ω        | R  | I        | T        | T        | R        | P        | D        | L        | P        | Y        | E        | Q        | A        | R        | R        | S        | A        | W        | 260         |
| ACG      | AGT      | CAC  | AGC      | CAT      | CCC      | ACT      | CAG      | TCA      | AAA      | GCT      | ACC      | CAA      | CCA      | TCA      | TCT      | TCA      | ACA      | GTG      | CCC      | 902         |
| T        | S        | H  | S        | H        | P        | T        | Q        | S        | K        | A        | T        | Q        | P        | S        | S        | S        | T        | V        | P        | 280         |
| AAA<br>K | ACA<br>T | GAA<br>E   | GAC<br>D | CAG<br>Q | CGT<br>R | CCT<br>P | CAG<br>Q | TTA<br>L | GAT<br>D | CCT<br>P | TAT<br>Y | CAG<br>Q | ATT      | CTT      | GGA<br>G | CCG<br>P | ACC<br>T | AGC<br>S | AGC<br>S | 962<br>300  |
|          |          |  |          |          |          |          |          |          |          |          |          | TGG      | CAG      |          |          |          |          |          | CTG      | 1022        |
| R        | L        | A  | N        | P        | G        | s        | G        | Q<br>NEG | I        | Q        | L        | W        | Q        | P        | L        | L        | E        | L        | L        | 320<br>1082 |
| S        | D        | S  | s        | N        | S        | N N      | C        | I        | T        | W        | E        | GGC<br>G | T        | N        | G        | E        | F        | K        | M        | 340         |
| ACA      | GAC      | CCT  | GAT      | GAA      | GTG      | GCT      | CGG      | CGT      | TGG      | GGA      | GAG      | AGG      | AAA      | AGC      | AAA      | CCT      | AAC      | ATG      | AAC      | 1142        |
| T        | D        | P  | D        | E        | V        | A        | R        | R        | W        | G        | E        | R        | K        | S        | K        | P        | N        | M        | N        | 360         |
| 7        | GAC<br>D | K  | L        | S        | R        | A        | L        | R        | ¥        | ¥        | ¥        | GAC<br>D | K        | H        | I        | H        | ACT<br>T | K        | GTT<br>V | 1202<br>380 |
| Н        | G        | К  | R        | ¥        | A        | ¥        | K        | P        | D        | P        | H        | GGA<br>G | I        | A        | Q        | A        | L        | Q        | P        | 1262<br>400 |
| CAC      | CCT      | CCA  | gaa      | TCA      | TCC      | ATG      | TAC      | AAA      | TAC      | CCA      | TCA      | GAC      | CTC      | CCC      | TAC      | ATG      | AGT      | TCC      | TAC      | 1322        |
| H        | P        | P  | e        | S        | S        | M        | Y        | K        | Y        | P        | S        | D        | L        | P        | Y        | M        | S        | S        | Y        | 420         |
| CAT<br>H |          |  | CCC<br>P |          |          | ATG<br>M |          | TTT<br>P |          |          |          | CAT<br>H |          |          | GCT<br>A |          |          | GTA<br>V | ACC<br>T | 1382<br>440 |
|          | TCC<br>S | AGC<br>S   |          |          |          |          |          |          | CCA<br>P |          | TGG<br>W | aat<br>N |          | CCA<br>P |          |          | GGC<br>G |          | TAC      | 1442<br>460 |
| CCC      | AAT<br>N | ACC<br>T   | AGG<br>R | CTG<br>L | CCA<br>P | GCT<br>A | GCT<br>A | CAT<br>H | ATG<br>M | CCT<br>P | TCC<br>S | CAT<br>H | CTT<br>L | GGC<br>G | ACC<br>T | TAC<br>Y | TAC<br>Y | TAA<br>• | GTG      | 1502<br>478 |
| GGGA     | AAGA     | AAGA   | AAGC     | GCCA     | AGAA     | AA       |          |          |          |          |          |          |          |          |          |          |          |          |          | 1516        |

Fig.2

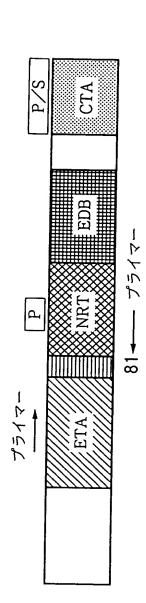


Fig.3

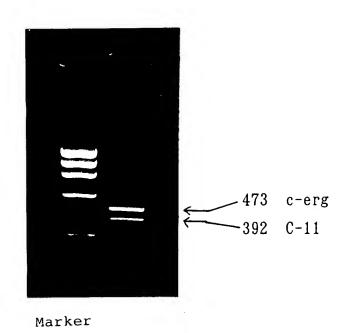


Fig.4

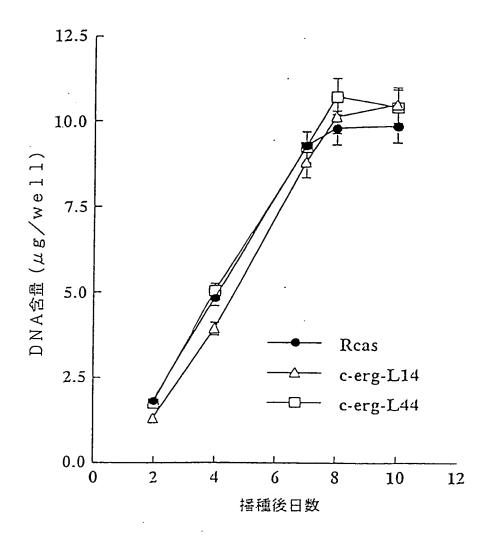


Fig.5

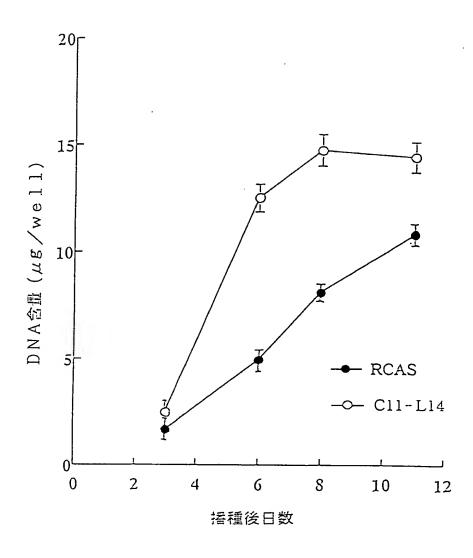


Fig.6

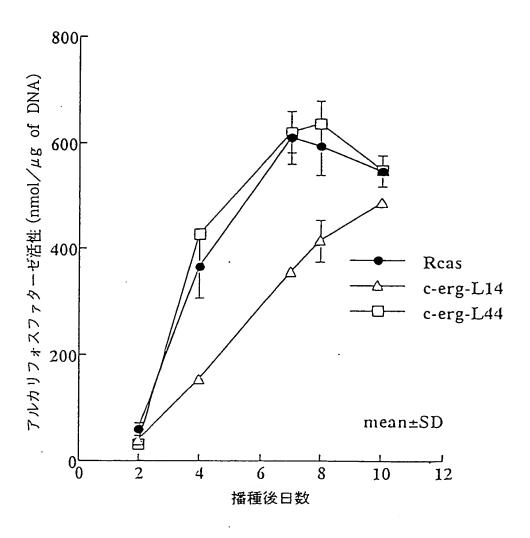


Fig.7

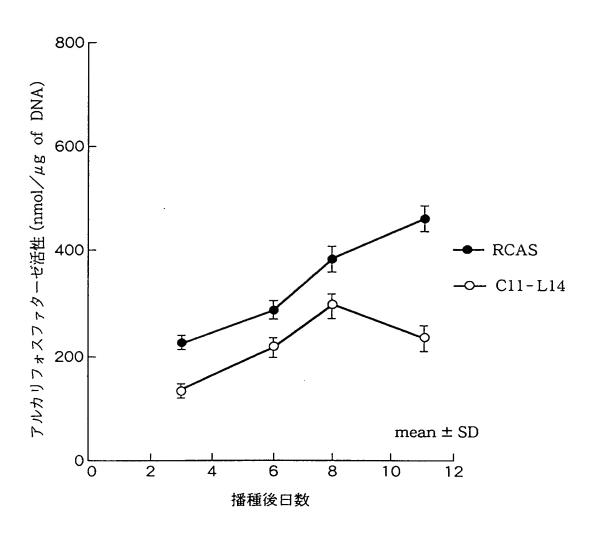


Fig.8

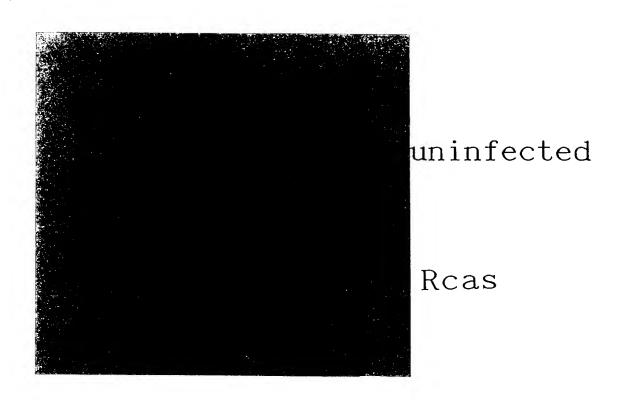


Fig.9

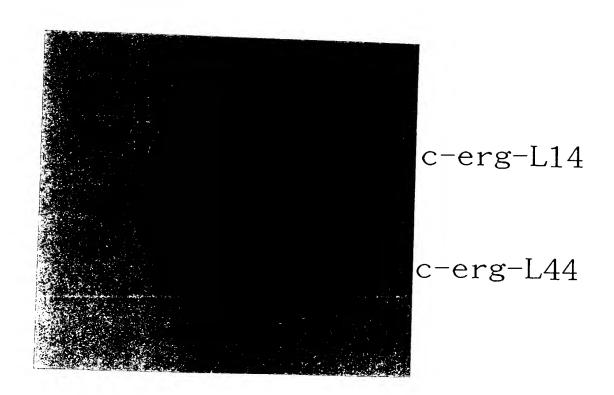


Fig.10

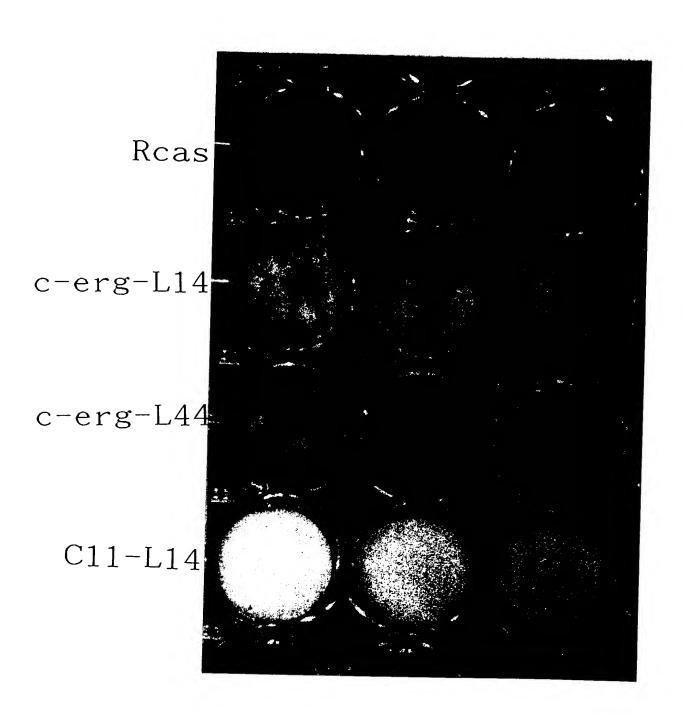


Fig.11

